

WHAT IS CLAIMED IS:

1. An editing apparatus for encoding a plurality of images or sounds and multiplexing the plural encoded data so as to produce recording data which is recorded in a recording medium, said editing apparatus comprising:

storage means having a plurality of input ports and at least one output port;

a plurality of encoding means for encoding inputted images or sounds, and for storing the encoded data in a predetermined recording area of said storage means through said input ports;

multiplexing means for reading said encoded data from said storage means through said output port to be multiplexed so as to produce the multiplexed data, and for storing the multiplexed data in a predetermined recording area of said storage means through said input ports as said recording data; and

control means for controlling the recording area of said storage means, wherein a different recording area is assigned, as an area where said encoded data is stored, to each of said plurality of encoding means, the recording areas in which said encoded data has been stored is assigned to said multiplexing means, and a recording area which is different from that of said encoded data is assigned, as an area where said multiplexed data is stored, to said multiplexing means.

2. The editing apparatus according to claim 1, wherein

said control means outputs information necessary for encoding processing to said encoding means, so as to instruct the encoding means to start the encoding processing.

3. The editing apparatus according to claim 1, wherein said control means gives said encoding means the address information of said recording area for storing the encoded data, when said encoding means requests an area where the encoded data will be stored.

4. The editing apparatus according to claim 1, wherein when said control means receives information that all of said encoding means have completed the encoding processing, the control means gives said multiplexing means the address information of the recording area in which said encoded data has been stored and the address information of said recording area in which said multiplexed data is stored, so as to instruct the multiplexing means to start the multiplexing processing.

5. The editing apparatus according to claim 1, further comprising

decoding means for reading said multiplexed data from said storage means through said output ports to decode said multiplexed data.

6. The editing apparatus according to claim 1, further comprising

recording means for reading said multiplexed data from said storage means through said output ports to record said multiplexed data in a predetermined recording medium as said recording data.

7. A data editing method for encoding a plurality of images or sounds and multiplexing the plural encoded data so as to produce recording data which is recorded in a recording medium, said data editing method comprising the steps of:

respectively encoding a plurality of inputted images or sounds and respectively storing the encoded data in different recording areas of storage means; and

reading said encoded data from said storage means to be multiplexed so as to produce the multiplexed data, and storing the multiplexed data as said recording data in a recording area of said storage means which is different from that of said encoded data.